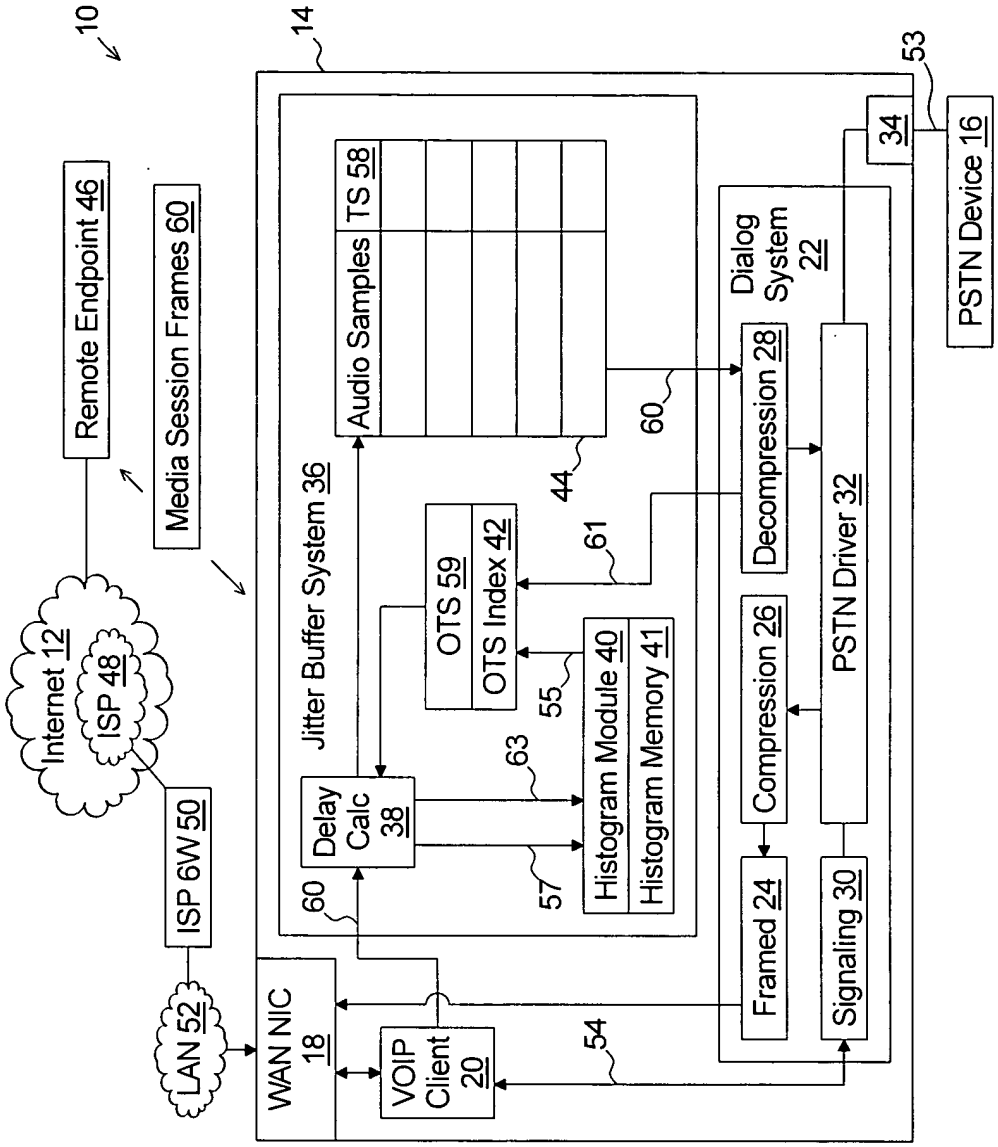
10
14
53
Remote Endpoint 46
Media Session Frames 60
Internet 12
ISP 48
ISP 6W 50
LAN 52
WAN NIC 18
VOIP Client 20
Jitter Buffer System 36
Audio Samples
TS 58
OTS 59
OTS Index 42
Histogram Module 40
Histogram Memory 41
Delay Calc 38
60
44
61
55
63
57
54
Dialog System 22
Decompression 28
Compression 26
Framed 24
PSTN Driver 32
Signaling 30
34
PSTN Device 16

Figure 1

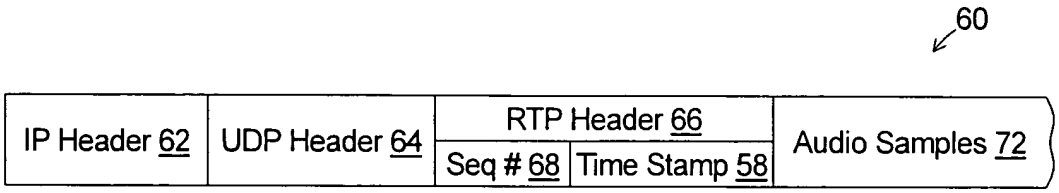

Figure 2

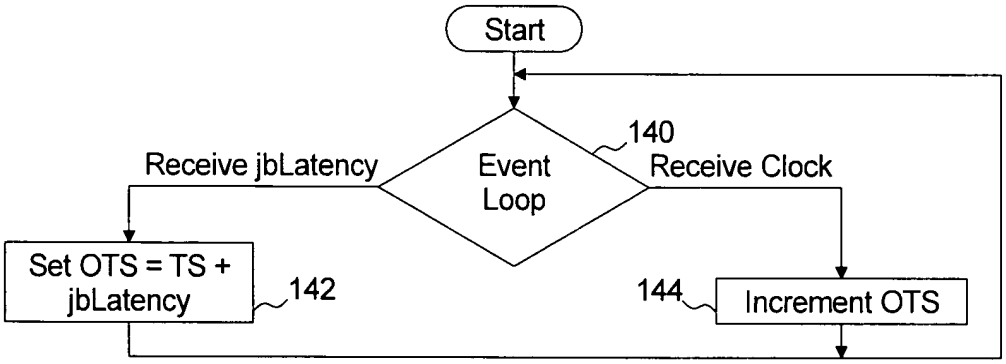

Figure 3

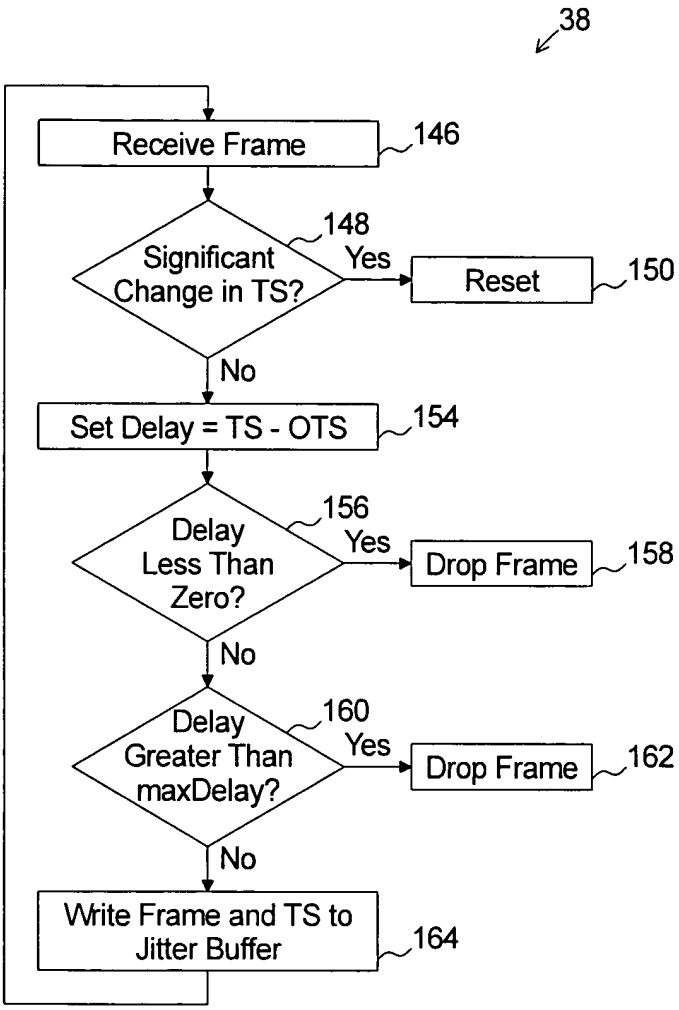
38
Receive Frame
146
148
Significant Change in TS?
Yes
Reset
150
No
Set Delay = TS - OTS
154
156
Delay Less Than Zero?
Yes
Drop Frame
158
No
160
Delay Greater Than maxDelay?
Yes
Drop Frame
162
No
Write Frame and TS to Jitter Buffer
164

Figure 4

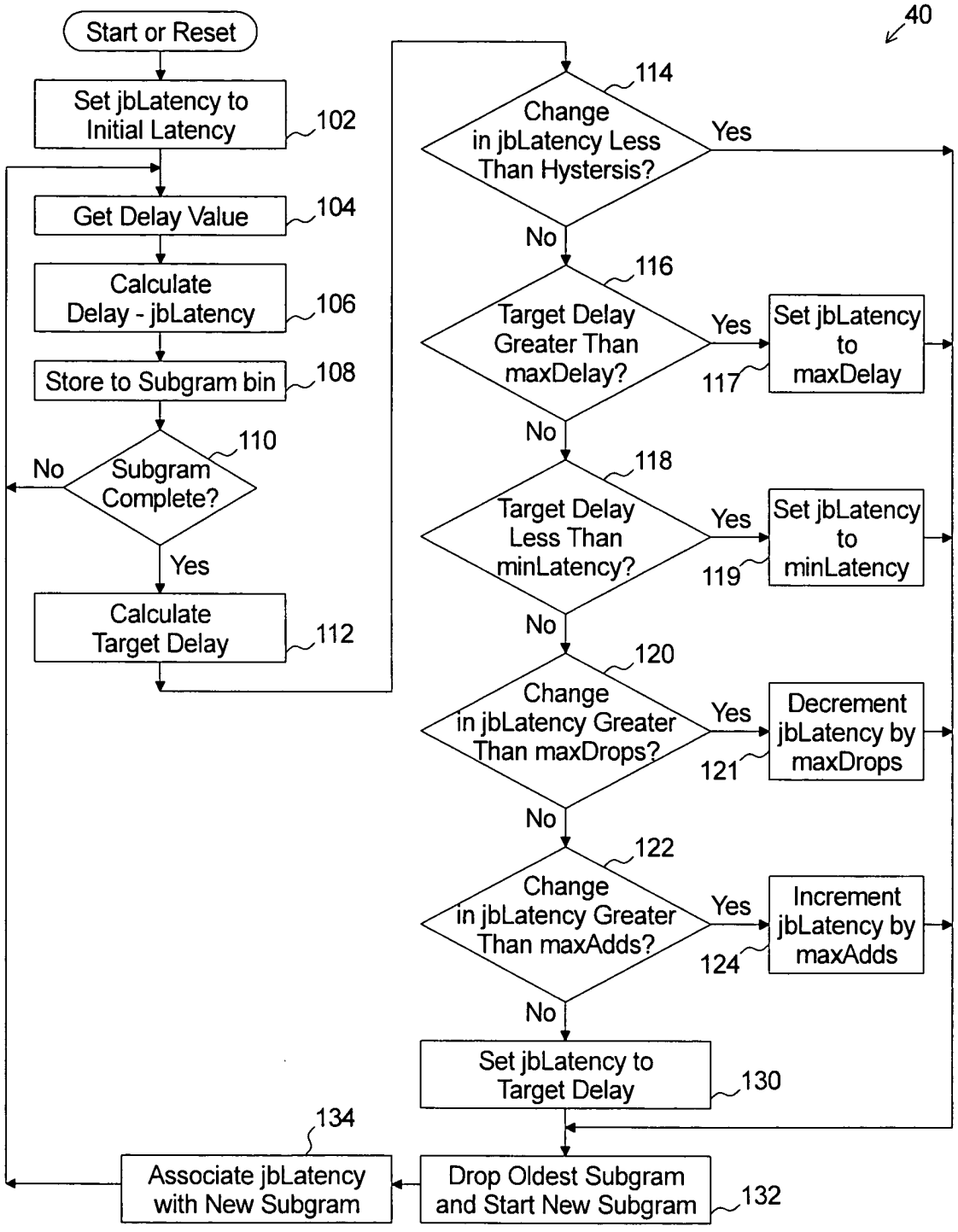
40
Start or Reset
Set jbLatency to Initial Latency
102
Get Delay Value
104
Calculate Delay - jbLatency
106
Store to Subgram bin
108
Subgram Complete?
110
No
Yes
Calculate Target Delay
112
Change in jbLatency Less Than Hystersis?
114
Yes
No
Target Delay Greater Than maxDelay?
116
Yes
117
Set jbLatency to maxDelay
No
Target Delay Less Than minLatency?
118
Yes
119
Set jbLatency to minLatency
No
Change in jbLatency Greater Than maxDrops?
120
Yes
121
Decrement jbLatency by maxDrops
No
Change in jbLatency Greater Than maxAdds?
122
Yes
124
Increment jbLatency by maxAdds
No
Set jbLatency to Target Delay
130
Drop Oldest Subgram and Start New Subgram
132
Associate jbLatency with New Subgram
134

Figure 5

Configuration Value Table 200			
Parameter 201	Value	Default Value	Description
outOfSyncFrames 204		30	If The Absolute Value of Delay is Greater Than outOfSyncFrames Then a Reset is Generated
initialLatency 206		4	Initial Value of jbLatency After Reset
minLatency 208		1	Minimum Value of jbLatency
maxDelay 210		30	if Delay is Greater Than maxDelay Then the Packet is Dropped, also, jbLatency is Not Allowed to Exceed maxDelay
packetsPerGram 212		200	Maximum Number of Packets Represented by One Subhistogram
grams 214		10	Quantity of Subhistograms
bin 216		16	Quantity of bins in Each Subhistogram
dropsPerMil 218		3	Number of Allowed Packet Drops in 1000 Packets
hysteresis 220		1	Minimum Difference Between Target Delay and jbLatency for Change in jbLatency
maxDrops (Decrement) 222		30	Maximum Decrement in jbLatency
maxAdds (Increment) 224		30	Maximum Decrement in jbLatency

Figure 6